

REPLACEMENT SHEET

Drawing Sheet 1 of 4

Title: SYSTEM AND METHOD UTILIZING A WORKFLOW DEFINITION LANGUAGE

Docket No.: BEAS-01389US1

Inventors: Pal Takacsi-Nagy

Application No.: 10/784,375 Filing Date: 2/23/2004

Attorney: Karl F. Kenna

Phone No.: 415-362-3800

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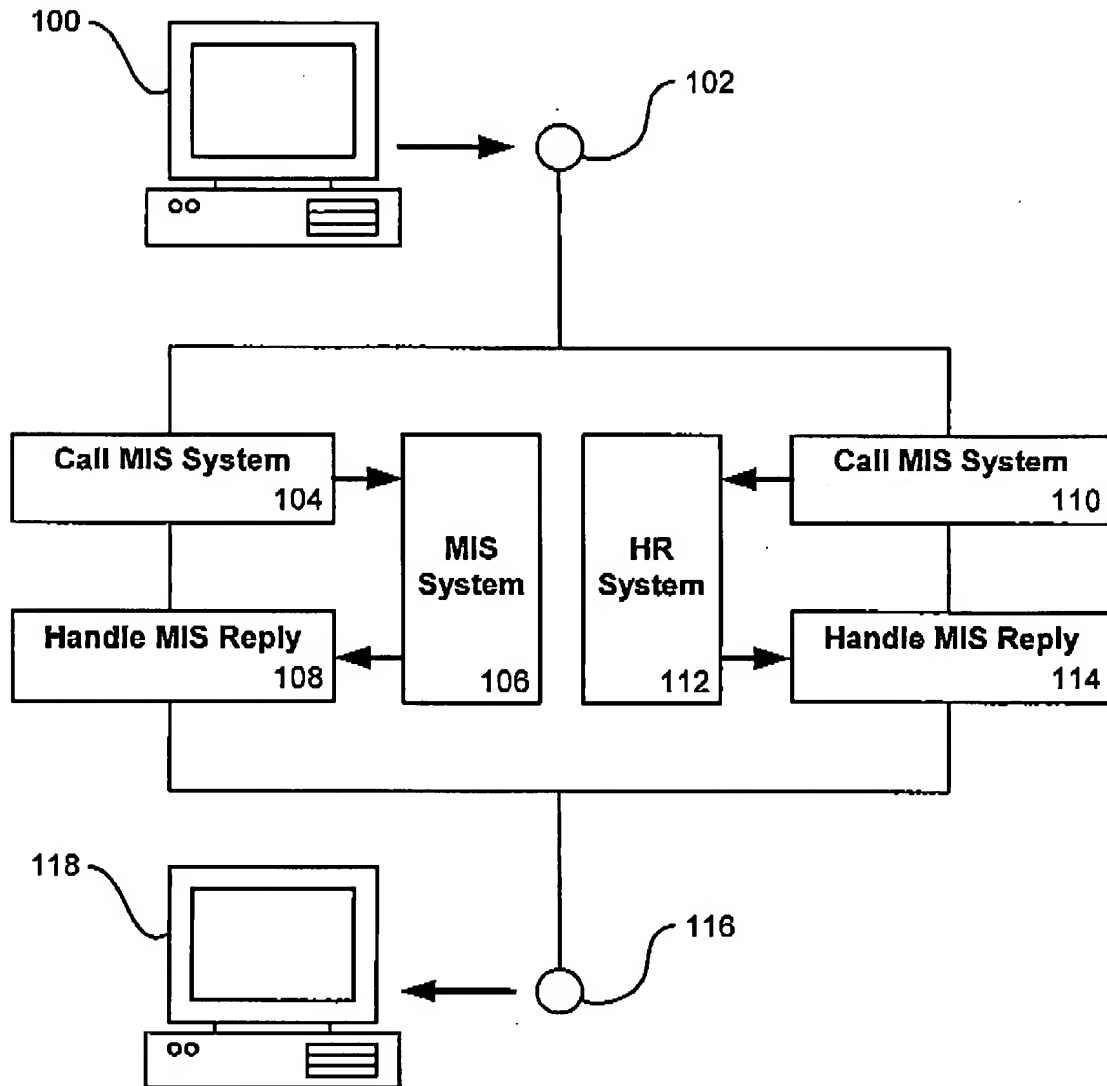


Figure 1

REPLACEMENT SHEET

Drawing Sheet 2 of 4

Title: SYSTEM AND METHOD UTILIZING A WORKFLOW DEFINITION LANGUAGE

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```

/**
 * @jwf:flow flow::
 *
 * <process>
 * <receive name="Receive employee info" method ="start"/>
 * <parallel join-condition="AND">
 *     <branch>
 *         <perform name="Request e-mail" method="reqMail"/>
 *         <receive name="Get e-mail" method="MIS_mailReady"/>
 *         <perform name="Notify client about e-mail"
 *             method ="mailNotification"/>
 *     </branch>
 *     <branch>
 *         <perform name="Request benefits" method ="regBenefits"/>
 *         <receive name="Get benefits" method ="hr_benefitsReady"/>
 *         <perform name="Notify client about benefits"
 *             method ="benefitsNotification"/>
 *     </branch>
 * </parallel> * <perform name="Reply to requestor" method="end"/>
 * </process>
 * ::
 */

```

Figure 2

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REPLACEMENT SHEET

Drawing Sheet 3 of 4

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```

*      @jwf:flow flow::
*
*      <process name="PurchaseOrder">
*      <receive name="Receive PO" method="getPO"/>
*      <forEach name="process Line Items" var="lineitem"
*          expression="getLineItems"
*          parameters="inputPO">
*      <perform name="Process line item" method="processOrder"/>
*          <receive name="Handle service ack."
*              method="orderService sendAck"/>
*      </forEach>
*      <perform name="Send reply to the client" method="send Reply"/>
*      </process> *
*      ::
*
*      xquery::
*      define function getLineItems (element $po) returns element* {
*          $po/DATAAREA/PROCESS PO/POORDERLIN }
*      define function concat (element $x1, element $x2) returns element {
*          $x1 + $x2 }
*      define function buildReply (element $x1) returns element {
*          <reply>$x1 </reply> }
*      ::
**/
    
```

Figure
3B

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Figure 3A

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Figure
3A

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```

public class PurchaseOrder {
    public XML inputPO;
    public XML lineitem;
    /**
     * @jwf:xml-sequence
     */
    public XML poAckList;
    /**
     * @jwf:transforms
     */
    PoTransforms transforms;
    /**
     * @jws:control
     */
    public OrderProcessor orderService;
    void getPO(XML po) {
        inputPo = po;
    }
    public void processOrder() {
        orderService.processOrder(lineitem);
    }
    public void orderService sendAck(XML ackedLine)
        throws Exception {
        poAckList = transforms.concat(poAckList, ackedLine);
    }
    public void sendReply() {
        callback.reply(transforms.buildReply(poAckList));
    }
    public Callback callback;
    public interface Callback {
        public void reply(XML ack);
    }
}

```

Figure 3B